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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/069,574	08/01/2002		Gerard Ribes	1721-49	1529	
21559	7590	590 04/25/2005		EXAMINER		
CLARK & 1			WEDDINGTON, KEVIN E			
BOSTON, N			ART UNIT	PAPER NUMBER		
ŕ					1614	
			DATE MAILED: 04/25/2009	ξ.		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/069,574	RIBES ET AL.					
Office Action Summary	Examiner	Art Unit					
	Kevin E. Weddington	1614					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from to	ely filed will be considered timely. the mailing date of this communication. 35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 03 Fe	<u>bruary 2005</u> .						
2a)⊠ This action is FINAL . 2b)□ This							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-3 and 5-14 is/are rejected. 7) ☑ Claim(s) 4 is/are objected to.	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) <u>1-3 and 5-14</u> is/are rejected.						
Application Papers							
9)☐ The specification is objected to by the Examine	· •						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	atent Application (PTO-152)					

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Claims 1-14 are presented for examination.

Applicants' information disclosure statement filed January 31, 2005 and the amendment filed February 3, 2005 have been received and entered.

Accordingly, the rejections made under 35 USC 101 and 35 USC 103 as set forth in the previous Office action at pages 2-4 are hereby withdrawn.

Claim Objections

Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-3 and 5-14 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method of inducing an insulin sensitizing or insulin mimetic effect in a tissue of a patent by administering 4-hydroxyisoleucine and/or lactonic form of this amino acid; and a pharmaceutical composition comprising insulin combined with 4-hydroxyisoleucine and/or lactonic form of this amino acid, does not reasonably provide enablement for the other mono-hydroxylated amino acids and polyhydroxylated amino acids. The specification does not enable any person skilled in the art to which it pertains, or with which

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it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

In this regard, the application disclosure and claims have been compared per factors indicated in the decision <u>In re Wands</u>, 8 USPQ2d 1400 (Fed. Cir., 1988) as to undue experimentation.

The factors include:

- 1) the quantity of experimentation necessary
- 2) the amount of direction or guidance provided
- 3) the presence or absence of working examples
- 4) the nature of the invention
- 5) the state of the art
- 6) the relative skill of those in the art
- 7) the predictability of the art and
- 8) the breadth of the claims.

The instant specification fails to provide guidance that would allow the skilled artisan background sufficient to practice the instant invention without resorting to undue experimentation in view of further discussion below.

The nature of the invention, state of the prior art, relative skill of those in the art and the predictability of the art

The claimed invention relates to a method of inducing an insulin sensitizing or insulin mimetic effect in a tissue of a patient, the method comprising administering to the patient a compound chosen from the group constituted by mono-hydroxylated amino acids, poly-

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hydroxylated amino acids, and the lactonic forms of these acids, along with a pharmaceutical composition or kit comprising both insulin and a compound chosen from the group constituted by mono-hydroxylated amino acids, poly-hydroxylated amino acids, and the lactonic forms of these acids.

The relative skill of those in the art is generally that of a Ph.D. or M.D.

The present invention is unpredictable unless experimentation is shown for the other mono-hydroxylated amino acids and poly-hydroxylated amino acids and their lactonic forms to induce an insulin sensitizing or insulin mimetic effects in a tissue of a patient.

The breadth of the claims

The claims are very broad and inclusive to any and all mono-hydroxylated amino acids and poly-hydroxylated amino acids and their lactonic forms.

The amount of direction or guidance provided and the presence or absence of working examples

The working examples are limited to the administration of 4-OH-IE (4-hydroxyisoleucine).

Example 2 shows unexpected results for the combination of insulin and 4-hydroxyisoleucine.

The quantity of experimentation necessary

Applicants have failed to provide guidance as to how the other mono-hydroxylated amino acid and poly-hydroxylated amino acids are effective in inducing an insulin sensitizing or insulin mimetic effect in a tissue of a patient. The level of experimentation needed to determine the other mono-hydroxylated amino acids and poly-hydroxylated amino acids would be able to

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induce insulin sensitizing is undue. Therefore, undue experimentation would be required to practice the invention as it is claimed in its current scope.

Claims 1-3 and 5-14 are not allowed.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin E. Weddington whose telephone number is (571)272-0587. The examiner can normally be reached on 11:00 am-7:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (571)272-0951. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin E. Weddingto Primary Examiner Art Unit 1614

K. Weddington April 19, 2005